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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,054	11/25/2003	Sakari Poussa	60279-00069	4194

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EXAMINER	
RAHIM, MONJUR	

ART UNIT	PAPER NUMBER
2434	

MAIL DATE	DELIVERY MODE
12/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/720,054	POUSSA ET AL.	
	Examiner	Art Unit	
	MONJOUR RAHIM	2434	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *02 October 2008*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-8,10-12 and 14-26* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-8,10-12 and 14-26* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. This action is in response to the amendment and argument field on ***10/02/2008***.
2. ***Claims 1-8, 10-12, 14-26*** remain rejected under 35 U.S.C 102(a) as being anticipated/ unpatentable by/over Leung et al. (US Patent No. 6760444).
3. ***Claims 21-26*** are newly added.
4. ***Claims 9, 13*** cancelled.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1, 10, 14, 16, 18, 21-26 is rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,760,444 to Leung et al.

As per claims 1, 10, 14, 16. 18 Leung discloses an interaction between a Home Agent (the application device comprising management clients) that is connected to a server (the service device) via a communications network (see column 6, lines 24-26) and one or more wireless clients. The Home Agent may contact the server with a request for services such as creating (see column 2, line 58 to column 3, line 16) and managing security associations or authentication services (handled by the server's internet protocol security services) and receive in return a security association (see column 7, lines 16-32). The response is sent by the server to the home agent (see column 7, lines 33-50). Since, the security associations may comprise keys (see column 7, line 67), this uses a session key management protocol.

Leung discloses (Leung, abstract, "The security association may be sent to the network device to permit authentication of the mobile node. Alternatively, authentication of the mobile

node may be performed at the server by applying the security association"), where "node" is the unit, as claimed.

In regard to ***claim 21***, Leung discloses:

- providing one or more internet protocol security services comprising at least one of authentication services and encryption services from an internet protocol security service unit, wherein said internet protocol security service unit is deployed in a service device (Leung, col 6, lines 29-36, "In addition to providing a centralized server which is capable of storing security-associations for multiple Home Agents, the centralized server may provide further services. By way of example, the centralized server may provide authentication services and/or authorization services. While authentication determines who an entity is, authorization determines what services a user is allowed to perform, or access");

- receiving security association management requests issued from at least one management client external to said service device and responding, in connection with said providing the one or more internet protocol security services, to said received security association management requests (Leung, col 7, lines 35-47, "At step 714, the server receives the packet identifying the mobile node (e.g., an authorization request packet) from the Home Agent. … send the security association to the Home Agent for authentication of the mobile node (716). The server constructs a packet in the appropriate format (e.g., a TACACS+ authorization reply packet) and includes the security association").

In regard to ***claim 22***, Leung discloses:

- providing one or more internet protocol security services comprising at least one of authentication services and encryption services from an internet protocol security service unit, said internet protocol security service unit being deployed in a service device (Leung, col 6, lines 29-36, "In addition to providing a centralized server which is capable of storing security-associations for multiple Home Agents, the centralized server may provide further services. By way of example, the centralized server may provide authentication services and/or authorization services. While authentication determines who an entity is, authorization determines what services a user is allowed to perform, or access");

- issuing security association management requests to create and manage, with a session key management protocol, security associations for use by said provided internet protocol security services, from at least one management client, said at least one management client being deployed in an application device (Leung, col 7, lines 54-61, "The security association may be retrieved from the server each time mobile node 702 sends a fresh registration request. To reduce the effort associated with this, the security association may be temporarily loaded into memory (e.g., a portion of DRAM) of the Home Agent. In this manner, some transfers of security associations from the server to the Home Agent are eliminated");

- receiving in a management server said security association management requests issued from said at least one management client (Leung, col 7, lines 35-47, "At step 714, the server receives the packet identifying the mobile node (e.g., an authorization request packet) from the Home Agent. … ..appropriate format (e.g., a TACACS+ authorization reply packet) and includes the security association").

- responding, in connection with said internet protocol security service unit, to said security association management requests received at said management server, said management server being deployed in said service device, wherein said application device is connected to said service device by a communication network (Leung, col 4, lines 33-45, "While authentication determines who an entity is, authorization determines what services a user is allowed to perform, or access. … available at http://www.ietf.org/internet-drafts/draft-grant-tacacs-02.txt, describes").

In regard to ***claim 23***, Leung discloses:

- issuing, from at least one management client deployed in an application device, security association management requests to create and manage, with a session key management protocol, security associations for use by one or more internet protocol security services comprising at least one of authentication services and encryption services provided by an internet protocol security service unit external to said application device (Leung, col 7, lines 62-68, "A suitable algorithm for clearing security associations from the Home Agent's memory may be employed (e.g., a least recently used (LRU) algorithm). While this approach can reduce

traffic between server and Home Agent--and thereby eliminate attendant delay--it must also account for modifications of security associations (e.g., keys) on the server");

- communicating at least one of said issued security association management requests to a management server external to said application device, said management server configured to respond to said security association management requests in connection with said internet protocol security service unit (Leung, col 10, lines 18-24, "an architecture having a single processor that handles communications as well as routing computations, etc. would also be acceptable. Further, other types of interfaces and media could also be used with the router. Still further, in some cases, the invention can be implemented on network devices other than routers").

In regard to ***claim 24***, Leung discloses:

- providing one or more internet protocol security services comprising at least one of authentication services and encryption services from an internet protocol security service unit, said internet protocol security service unit being deployed in a service device (Leung, col 8, lines 17-26, "FIG. 8 is a process flow diagram illustrating the steps performed during authentication of a mobile node according to a second embodiment of the invention. As shown, process steps performed by the mobile node are illustrated along vertical line 802, steps performed by the Home Agent are illustrated along vertical line 804, and steps performed by the server are illustrated along vertical line 806. Again, the server is preferably an AAA server that can provide authorization and accounting services as well as authentication services");

- receiving security association management requests issued from at least one management client external to said service device and responding, in connection with said providing the one or more internet protocol security services, to said received security association management requests (Leung, col 7, lines 35-47, "At step 714, the server receives the packet identifying the mobile node (e.g., an authorization request packet) from the Home Agent. … ..appropriate format (e.g., a TACACS+ authorization reply packet) and includes the security association").

In regard to ***claim 25***, Leung discloses:

- managing means for issuing security association management requests to create and manage, with a session key management protocol, security associations for use by one or more internet protocol security services comprising at least one of authentication services and encryption services provided by an internet protocol security service means external to said apparatus (Leung, col 7, lines 35-47, "At step 714, the server receives the packet identifying the mobile node (e.g., an authorization request packet) from the Home Agent. … send the security association to the Home Agent for authentication of the mobile node (716). The server constructs a packet in the appropriate format (e.g., a TACACS+ authorization reply packet) and includes the security association").

- communicating means for communicating said issued security association management requests to a management server external to said apparatus, said management server configured to respond to said security association management requests in connection with said internet protocol security service means (Leung, col 10, lines 18-24, "an architecture having a single processor that handles communications as well as routing computations, etc. would also be acceptable. Further, other types of interfaces and media could also be used with the router. Still further, in some cases, the invention can be implemented on network devices other than routers").

In regard to ***claim 26***, Leung discloses:

internet protocol security service means for providing one or more internet protocol security services comprising at least one of authentication services and encryption services (Leung, col 6, lines 32-36, "the centralized server may provide authentication services and/or authorization services. While authentication determines who an entity is, authorization determines what services a user is allowed to perform, or access");

- receiving means for receiving security association management requests issued from at least one management client external to said apparatus and for responding, in connection with said internet protocol security service means, to said received security association management requests 9 Leung, col 7, lines 35-47, "At step 714, the server receives the packet identifying the mobile node (e.g., an authorization request packet) from the Home Agent. … send the security association to the Home Agent for authentication of the mobile node (716). The

server constructs a packet in the appropriate format (e.g., a TACACS+ authorization reply packet) and includes the security association").

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim17 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent No. 6,760,444 to Leung et al.

Regarding claim 7, Leung does not disclose the structure of the network connecting the Home Agents to the servers.

Official notice is given that it is well-known in the art to implement computer connections using a local network.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement Leung's invention using a local network.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (see form "PTO-892 Notice of Reference Cited").

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monjour Rahim whose telephone number is (571)270-3890. The examiner can normally be reached on 5:30 AM -3:30 PM (Mo-Th).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571)272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (in USA or CANADA) or 571-272-1000.

/Monjour Rahim/
Patent Examiner
Art Unit: 2434
Date: 12/19/2008

/Kambiz Zand/

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